

REMARKS

Claims 1-12 are currently active.

The Examiner has rejected Claims 1-12 as being unpatentable under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. Applicant respectfully traverses this rejection. Applicant directs the Examiner to page 7, lines 23-27 of the originally filed application to show that the subject matter in question was described in the specification at the time the application was filed and that the inventor was in possession of the claimed invention at such time.

The Examiner has rejected Claims 1-12 under 35 U.S.C. 112, second paragraph, as being indefinite. It is respectfully submitted that applicant's claims are clear and definite to one skilled in the art. Furthermore, it is respectfully submitted that the quantities in question are defined in the claim itself. In regard to M and N, they could be the same or they could be different, as long as they are integers greater than or equal to 4.

The Examiner has rejected Claims 1 and 12 as being anticipated by Ebert. Applicant respectfully traverses this rejection. Ebert is actually the prior art Perlin noise developed by applicant. As stated in the background of the invention on page 1, beginning on

line 9, the various improvements of the claimed invention are listed in regard to Ebert. Specifically in regard to the limitation "where one clock cycle has between 200-300 MHz" the Examiner cites pages 214-218 for teaching this limitation. Applicant respectfully questions this assumption and conclusion by the Examiner as a review of these pages does not teach or suggest this limitation anywhere. Accordingly, Claims 1 and 12 are patentable and not anticipated by Ebert. In fact, the entire specification basically explains and describes the operation of the claimed invention. There is essentially nothing left for one skilled in the art to figure out to practice the claimed invention. One skilled in the art, who will generally be defined to have the background and capabilities of the inventor, a professor at New York University, whose job it is to teach students and explain how the subject matter and the technology he teaches, works; from reading the specification of the above-identified patent application would know how to practice the claimed invention.

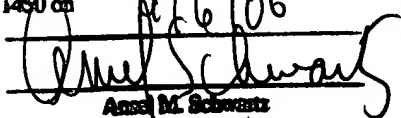
Furthermore, one skilled in the art knows exactly what the quantities in question are in regard to Perlin noise, and it is further set out in detail in regard to the enablement description in the specification, which if there was any confusion, one skilled in the art would look to for a definition. Accordingly, Claims 1-12 are clear and definite.

The Examiner has rejected Claims 2-11 as being unpatentable over Ebert in view of Ye. Applicant respectfully traverses this rejection. Ye also does not teach or suggest

anywhere the limitation that each three-dimensional evaluation of one x, y, z triplet requires only one clock cycle, where one clock cycle is between 200-300 MHz. It is respectfully submitted that such limitation does carry patentable weight. This language is a specific limitation that further defines the claimed invention and the capability of the elements. Claims 2-11 are dependent to parent Claim 1 and have all the limitations of Claim 1. For the reasons Claim 1 is patentable, as explained above, Claims 2-11 are patentable over Ebert in view of Ye.

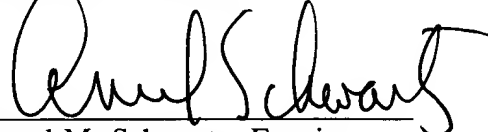
In view of the foregoing amendments and remarks, it is respectfully requested that the outstanding rejections and objections to this application be reconsidered and withdrawn, and Claims 1-12, now in this application be allowed.

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